

30

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Art Unit : 2785  
Examiner :  
Serial No. : 09/508,042  
Filed : March 3, 2000  
Inventors : Klaus Pawelzik  
: Klaus-Robert Muller  
: Jens Kohlmorgen  
Title : ELECTRIC WATER HEATER  
: WITH PULSED ELECTRONIC  
: CONTROL AND DETECTION

CUSTOMER NO. 35811  
Docket No.: 1035-00  
Dated: October 27, 2004

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Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Enclosed is a copy of the above-identified application filed in the U.S. Patent Office on April 28, 2000. This application was lost in the PTO Office and we are enclosing a copy of all of the documents filed since the application was submitted. Please examine this application in due course, keeping me fully advised.

Respectfully submitted,

T. Daniel Christenbury  
Reg. No. 31,750

TDC:cc  
(215) 656-3381

## FILING RECEIPT



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Washington, D.C. 20231

APPLICATION NUMBER	FILING DATE	GRP ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	DRAWINGS	TOT CLAIMS	IND CLAIMS
09/508,042	04/28/2000	2785	1237	1035-00	5	14	1

T DANIEL CHRISTENBURY  
SCHNADER HARRISON SEGAL & LEWIS  
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Receipt is acknowledged of this nonprovisional Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please write to the Office of Initial Patent Examination's Customer Service Center. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the PTO processes the reply to the Notice, the PTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

## Applicant(s)

KLAUS PAWELZIK, BREMEN, GERMANY;  
KLAUS-ROBERT MULLER, BERLIN, GERMANY;  
JENS KOHLMORGEN, BERLIN, GERMANY;

## Continuing Data as Claimed by Applicant

THIS APPLICATION IS A 371 OF PCT/EP98/05793 09/11/1998

## Foreign Applications

GERMANY 197 40 565.7 09/15/1997

If Required, Foreign Filing License Granted 06/02/2000

## Title

METHOD FOR DETECTING TIME DEPENDENT MODES OF DYNAMIC SYSTEMS

## Preliminary Class

714



U.S. Serial No. 09/508,042 filed 03/03/00 for Aklasu Pawelzik et al. entitled ELECTRIC WATER HEATER WITH PULSED ELECTRONIC CONTROL AND DETECTION

Dated: January 30, 2004

Docket: 1035-00

Commissioner for Patents  
P.O. Box 1450  
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U.S. Serial No. 09/508,042 filed 03/03/00 for Aklasu Pawelzik et al. entitled ELECTRIC  
WATER HEATER WITH PULSED ELECTRONIC CONTROL AND DETECTION

Dated: January 30, 2004

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Docket No.: 1035-00  
Dated: January 30, 2004

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Name of Applicant, Assignee, Applicant's Attorney  
or Registered Representative:

Piper Rudnick LLP  
Customer No. 035811

By: \_\_\_\_\_

Date: \_\_\_\_\_

30 Jan 2004



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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Serial No. : 09/508,042  
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Docket No.: 1035-00  
  
Dated: January 30, 2004

STATUS INQUIRY


Commissioner for Patents  
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Sir:

We filed the above-identified application on March 3, 2000. To date, we have not received any official action. Kindly inform us as to the status of the case.

Respectfully submitted,

  
T. Daniel Christenbury  
Reg. No. 31,750

TDC:cc  
(215) 656-3300



## MESSAGE CONFIRMATION

07/17/2000 14:03

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**36th Floor**  
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### **FACSIMILE TRANSMITTAL**

**To: Refund Division**

**Company: U.S. Patent and Trademark Office**

**Facsimile No.: 703-308-6778**

**From: T. Daniel Christenbury**

**Company:**

**Date: July 17, 2000**

**Re: U.S. Serial No. 09/508,042 Filed 3/3/2000**

**Docket No.: 1035-00**





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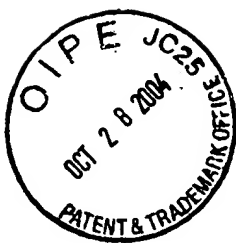
**To:** Refund Division  
**Company:** U.S. Patent and Trademark Office  
**Facsimile No.:** 703-308-6778  
**From:** T. Daniel Christenbury  
**Company:**  
**Date:** July 17, 2000  
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ATTORNEYS AT LAW

SUITE 3600 • 1600 MARKET STREET • PHILADELPHIA, PENNSYLVANIA 19103-7286

T. DANIEL CHRISTENBURY

215 751-2380

215-751-2160 Fax

### TELECOPIER TRANSMISSION COVER SHEET

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ATTN.: TAMMY HOLLAND

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FROM:

T. DANIEL CHRISTENBURY

CLIENT#:

ATTY#:

1264

RE:

U.S. SERIAL NO. 09/508,042 FILED MARCH 3, 2000

DOCKET NO. 1035-00



**SCHNADER HARRISON  
SEGAL & LEWIS LLP**

ATTORNEYS AT LAW

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**FROM:** T. DANIEL CHRISTENBURY  
**CLIENT#:**  
**ATTY#:** 1264  
**RE:** U.S. SERIAL NO. 09/508,042 FILED MARCH 3, 2000  
DOCKET NO. 1035-00

**NUMBER OF PAGES INCLUDING COVER PAGE: 6**

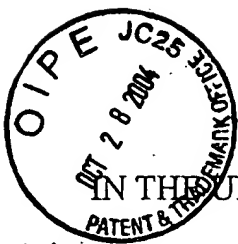
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**COMMENTS:** Per your request on August 24, 2000, I am sending you the following to evidence that the executed Statement Claiming Small Entity Status - Nonprofit Organization was mailed on April 28, 2000:

- 1) Express Mail Certification
  - 2) Post Office Express Mail Receipt Tracking No. EL525797859US
  - 3) Copies of Statement Claiming Small Entity Status - Nonprofit Organization
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Art Unit :  
Examiner :  
Serial No. : 09/508,042  
Filed : March 3, 2000  
PCT No. : PCT/EP98/05793  
PCT Filed : September 11, 1998  
Inventors : Klaus Pawelzik  
: Klaus-Robert Müller  
: Jens Kohlmorgen  
Title : METHOD FOR DETECTING  
: TIME-DEPENDENT MODES  
: OF DYNAMIC SYSTEMS

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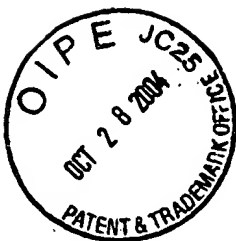
DESCRIPTION OF CONTENTS: Postcard, \$65.00 Check, \$40.00 Check,  
Transmittal Letter, executed Declaration and  
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U.S. Serial No. 09/508,042 filed 03/03/00 for Aklasu Pawelzik et al. entitled ELECTRIC WATER HEATER WITH PULSED ELECTRONIC CONTROL AND DETECTION

Dated: June 30, 2003

Docket: 1035-00

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Docket: 1035-00

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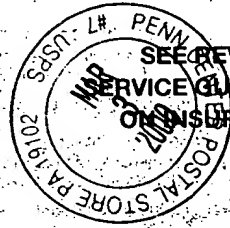
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T. Daniel Christenbury  
:lh

416 Rec'd PCT

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SEGAL & LEWIS LLP**

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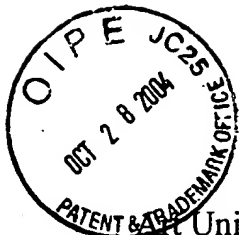
New U.S. Appln. based on PCT/EP98/05793 for Klaus Pawelzik et al. entitled  
METHOD FOR DETECTING TIME-DEPENDENT MODES OF DYNAMIC SYSTEMS  
Express Mail Label: EL525798125US  
Dated: March 3, 2000 Docket: 1035-00

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T. Daniel Christenbury  
:lh



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Patent Unit : 36th Floor  
Examiner : 1600 Market Street  
Serial No. : Philadelphia, PA 19103  
Filed : Herewith  
PCT No. : PCT/EP98/05793  
PCT Filed : September 11, 1998  
Inventors : Klaus Pawelzik  
: Klaus-Robert Müller  
: Jens Kohlmorgen  
Title : METHOD FOR DETECTING  
: TIME-DEPENDENT MODES  
: OF DYNAMIC SYSTEMS

Docket: 1035-00

Dated: March 3, 2000

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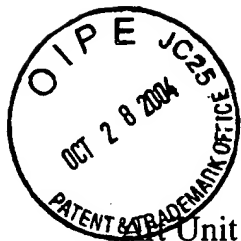
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Leslie Hood

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*Leslie Hood*

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Examiner :  
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          : Klaus-Robert Müller  
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      : OF DYNAMIC SYSTEMS

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Docket: 1035-00

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Dated: March 3, 2000

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**APPLICATION TRANSMITTAL LETTER**

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Sir:

We submit herewith for filing in the U.S. Patent and Trademark Office a copy of the above-identified PCT Application as filed with five (5) sheets of drawings, an English translation of the above-identified PCT Application as filed with five (5) sheets of drawings, a Preliminary Amendment, a copy of the Request (3 pages), a copy of the first page of WO 99/14686, a copy of PCT/ISA/220, a copy of PCT/IPEA/401, a copy of PCT/IPEA/416, Form PTO-1390, in duplicate, and our check in the amount of \$586.00, comprising the official filing fee.

Respectfully submitted,

T. Daniel Christenbury  
Reg. No. 31,750  
Attorney for Applicant(s)

TDC:lh  
(215) 563-1810

FORM PTO-1390  
(REV. 6-87)

U.S. DEPARTMENT OF COMMERCE  
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**TRANSMIT BY REGISTERED MAIL TO THE UNITED STATES  
DESIGNATED/ELECTED OFFICE (DO/EO/US)**

INTERNATIONAL APPLICATION NO.  
PCT/EP98/05793

INTERNATIONAL FILING DATE  
11 September 1998 (11.09.98)

PRIORITY DATE CLAIMED  
15 September 1997 (15.09.97)

**TITLE OF INVENTION**

**METHOD FOR DETECTING TIME-DEPENDENT MODES OF DYNAMIC SYSTEMS**

**APPLICANT(S) FOR DO/EO/US**

Klaus Pawelzik, Klaus-Robert Müller and Jens Kohlmorgen

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items under 35 U.S.C. 371:

1. ☒ This express request to immediately begin national examination procedures (35 U.S.C. 371(f)).
2. ☒ The U.S. National Fee (35 U.S.C. 371(c)(1)) and other fees as follows:

CLAIMS	(1) FOR	(2) NUMBER FILED	(3) NUMBER EXTRA	(4) RATE	(5) CALCULATIONS
	TOTAL CLAIMS	24 -20=	4	x \$18.00	\$ 72.00
	INDEPENDENT CLAIMS	2 -3=	0	x \$78.00	
	MULTIPLE DEPENDENT CLAIM(S) (if applicable)			+ \$260.00	260.00
	BASIC NATIONAL FEE (37 CFR 1.492(a)(1)-(4)):				
	<input type="checkbox"/> International preliminary examination fee paid to USPTO (37 CFR 1.482).....				\$750.00
	<input type="checkbox"/> No international preliminary examination fee paid to USPTO (37 CFR 1.482) but international search fee paid to USPTO (37 CFR 1.445(a)(2)).....				\$760.00
	<input type="checkbox"/> Neither international preliminary examination fee (37 CFR 1.482) nor international search fee (37 CFR 1.445(a)(2)) paid to USPTO.....				\$970.00
	<input type="checkbox"/> International preliminary examination fee paid to USPTO (37 CFR 1.482) and all claims satisfied provisions of PCT Article 33(2) to (4).....				\$ 96.00
	<input checked="" type="checkbox"/> International Search Report enclosed .....				\$840.00
	Surcharge of \$ _____ for furnishing the National fee or oath or declaration later than <input type="checkbox"/> 20 <input type="checkbox"/> 30 mos. from the earliest claimed priority date (37 CFR 1.482(e)).				\$130.00
	TOTAL OF ABOVE CALCULATIONS				= \$1,172.00
	Reduction by 1/2 for filing by small entity, if applicable. Affidavits must be filed also. (Note 37 CFR 1.9, 1.27, 1.28.)				\$ 586.00
	SUBTOTAL				586.00
	Processing fee of \$ _____ for furnishing the English Translation later than <input type="checkbox"/> 20 <input type="checkbox"/> 30 mos. from the earliest claimed priority date (37 CFR 1.482(f)).				\$130.00
	TOTAL NATIONAL FEE				\$ 586.00
	Fee for recording the enclosed assignment (37 CFR 1.21(h)).				\$40.00 +
	TOTAL FEES ENCLOSED				\$ 586.00

- a. ☒ A check in the amount of \$586.00 to cover the above fees is enclosed.
- b. ☐ Please charge my Deposit Account No. 13-3405 in the amount of \$ \_\_\_\_\_ to cover the above fees.  
A duplicate copy of this sheet is enclosed.
- c. ☒ The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 13-3405. A duplicate copy of this sheet is enclosed.

3. A copy of the International Application as filed (35 U.S.C. 371(c)(2))
- a. ☒ is transmitted herewith (required only if not transmitted by the International Bureau).
  - b. ☐ is not required, as the application was filed in the United States Receiving Office (RO/US).
  - c. ☐ has been transmitted by the International Bureau.

4. ☒ A translation of the International Application into English (35 U.S.C. 371(c)(2)).

5. Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))
- a. ☐ are transmitted herewith (required only if not transmitted by the International Bureau).
  - b. ☐ have been transmitted by the International Bureau.

6. ☐ A translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).

7. ☐ An oath or declaration of the inventor (35 U.S.C. 371(c)(4)).

8. ☐ A translation of the Annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).

Other document(s) or information included:

9. ☐ An Information Disclosure Statement under 37 C.F.R. 1.97 and 1.98.

10. ☐ An Assignment document for recording and a Recordation Form Cover Sheet - Patents Only. Please mail the recorded assignment document to the person whose signature, name and address appears at the bottom of this page.

11. The above checked items are being transmitted

- a. ☐ before the 18th month publication.
- b. ☐ after publication and the Article 20 communication but before 20 months from the priority date.
- c. ☐ after 20 months but before 22 months (surcharge and/or processing fee included).
- d. ☐ after 22 months (surcharge and/or processing fee included).

Note: Petition to revive (37 C.F.R. 1.137(a) or (b)) is necessary if 35 U.S.C. 371 requirements submitted after 22 months and no proper demand for International Preliminary Examination was made by 19 months from the earliest claimed priority date.

- e. ☒ by 30 months and a proper demand for International Preliminary Examination was made by the 19th month from the earliest claimed priority date.
- f. ☐ after 30 months but before 32 months and a proper demand for International Preliminary Examination was made by the 19th month from the earliest claimed priority date (surcharge and/or processing fee included).
- g. ☐ after 32 months (surcharge and/or processing fee included).

Note: Petition to revive (37 C.F.R. 1.137(a) or (b)) is necessary if 35 U.S.C. 371 requirements submitted after 32 months and a proper demand for International Preliminary Examination was made by 19 months from the earliest claimed priority date.

12. At the time of transmittal, the time limit for amending claims under Article 19

- a. ☐ has expired and no amendments were made.
- b. ☐ has not yet expired.

13. ☐ Certain requirements under 35 U.S.C. 371 were previously submitted by the applicant on \_\_\_\_\_, namely:

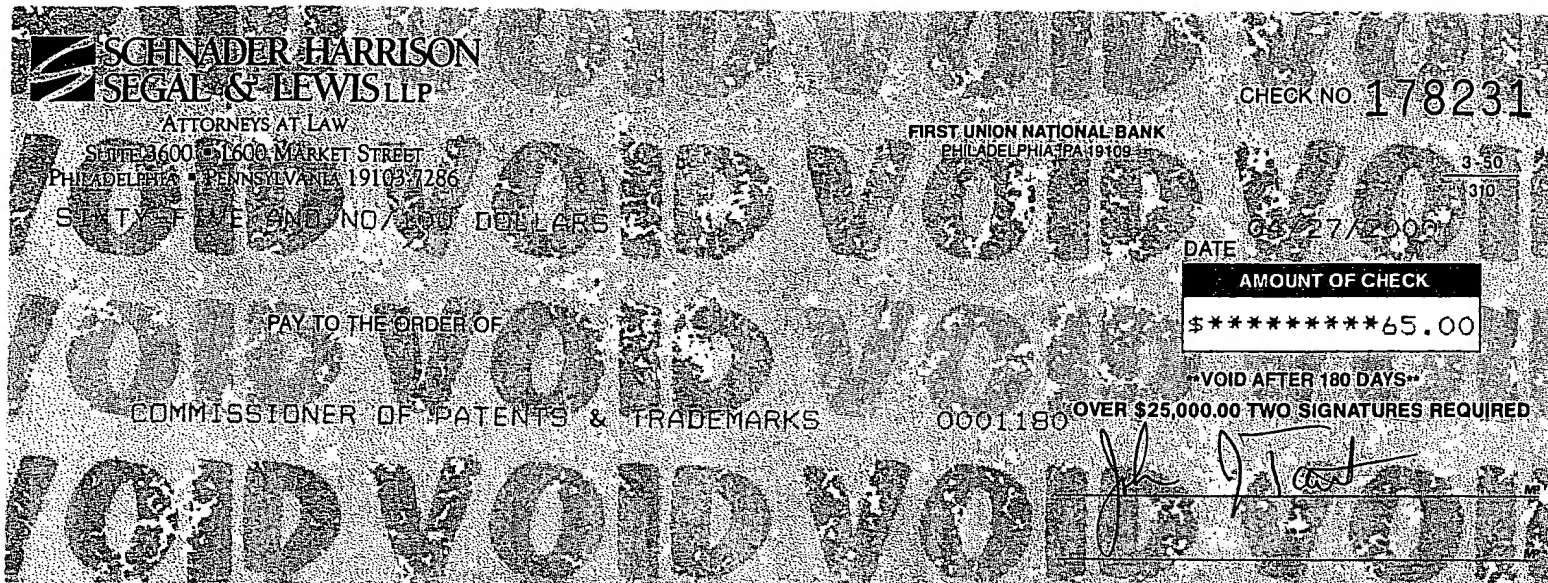
SCHNADER HARRISON SEGAL & LEWIS

Date: 3 MAR 2000

By: \_\_\_\_\_

T. Daniel Christenbury, Reg. No. 31,750  
36th Floor, 1600 Market Street  
Philadelphia, PA 19103





⑈ 178231 ⑈ ⑆031000503⑆ 2000039307659 ⑈

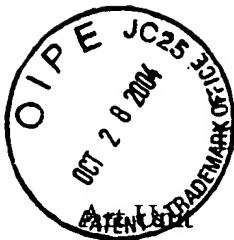
U.S. Serial No. 09/508,042 filed 3/3/00 for Klaus Pawelzik et al. entitled  
METHOD FOR DETECTING TIME-DEPENDENT MODES OF DYNAMIC SYSTEMS  
Express Mail Label: EL525797859US  
Dated: April 28, 2000                      Docket: 1035-00

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Assistant Commissioner for Patents  
Washington, DC 20231

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T. Daniel Christenbury  
:lh

EL525797859US



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Patent No. : 2785  
Examiner :  
Serial No. : 09/508,042  
Filed : March 3, 2000  
PCT No. : PCT/EP98/05793  
PCT Filed : September 11, 1998  
Inventors : Klaus Pawelzik  
: Klaus-Robert Müller  
: Jens Kohlmorgen  
Title : METHOD FOR DETECTING  
: TIME-DEPENDENT MODES  
: OF DYNAMIC SYSTEMS  
36 Floor  
1600 Market Street  
Philadelphia, PA 19103  
Docket No. 1035-00  
Date: July 17, 2000

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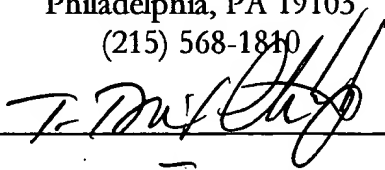
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1600 Market Street  
Philadelphia, PA 19103  
(215) 568-1810

By:   
Date: 17 July 2000





THE UNITED STATES PATENT AND TRADEMARK OFFICE

Art Unit : 2785  
Examiner :  
Serial No. : 09/508,042  
Filed : March 3, 2000  
PCT No. : PCT/EP98/05793  
PCT Filed : September 11, 1998  
Inventors : Klaus Pawelzik  
: Klaus-Robert Müller  
: Jens Kohlmorgen  
Title : METHOD FOR DETECTING  
: TIME-DEPENDENT MODES  
: OF DYNAMIC SYSTEMS

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1600 Market Street  
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Applicants paid this fee via Check No. 174731 dated March 3, 2000, copy (both sides) enclosed.

Applicants hereby request that a refund of \$586.00 be credited to Deposit Account No. 13-3405 for the above-mentioned charge.

Respectfully submitted,

T. Daniel Christenbury  
Reg. No. 31,750

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(215) 563-1810



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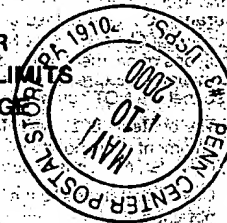
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METHOD FOR DETECTING TIME-DEPENDENT MODES OF DYNAMIC SYSTEMS  
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Dated: May 10, 2000

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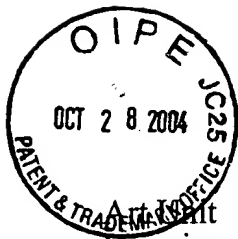
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Applicant :  
Examiner :  
Serial No. : 09/508,042  
Filed : March 3, 2000  
PCT No. : PCT/EP98/05793  
PCT Filed : September 11, 1998  
Inventors : Klaus Pawelzik  
: Klaus-Robert Müller  
: Jens Kohlmorgen  
Title : METHOD FOR DETECTING  
: TIME-DEPENDENT MODES  
: OF DYNAMIC SYSTEMS

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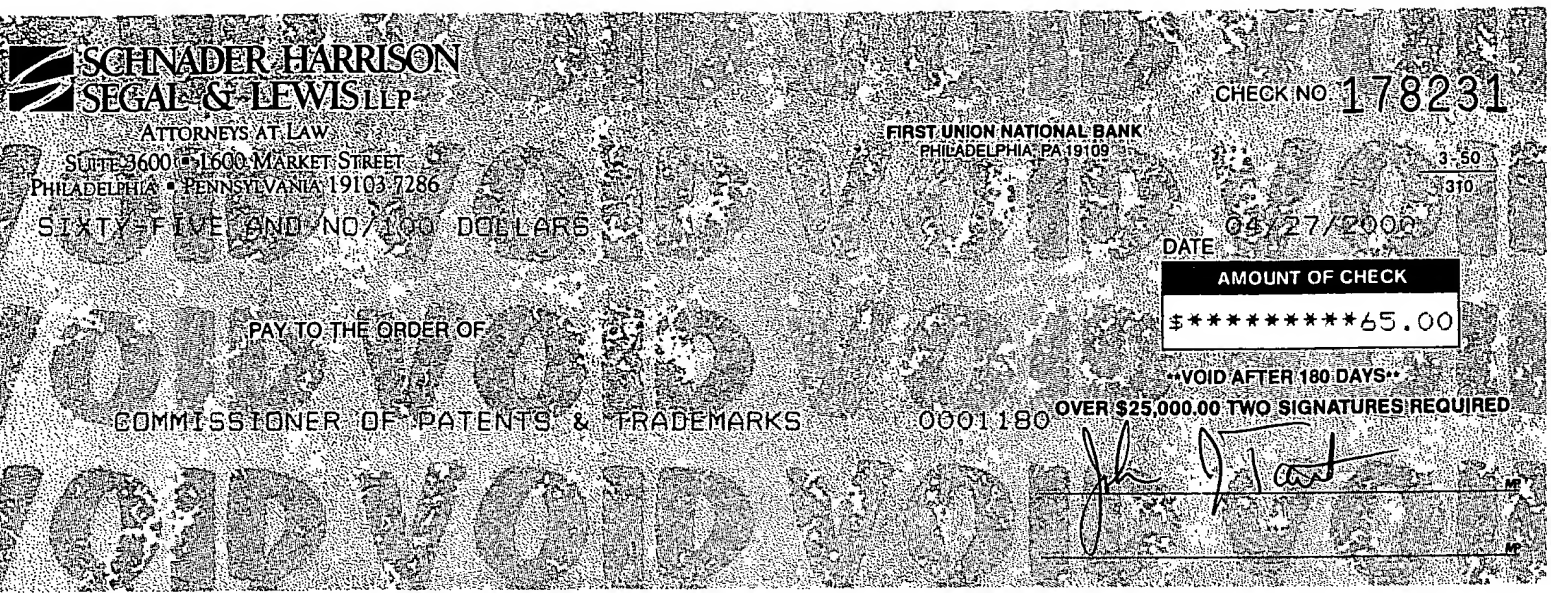
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Examiner :  
Serial No. : 09/508,042  
Filed : March 3, 2000  
PCT No. : PCT/EP98/05793  
PCT Filed : September 11, 1998  
Inventors : Klaus Pawelzik  
: Klaus-Robert Müller  
: Jens Kohlmorgen  
Title : METHOD FOR DETECTING  
: TIME-DEPENDENT MODES  
: OF DYNAMIC SYSTEMS

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Art Unit :  
Examiner :  
Serial No. : 09/508,042  
Filed : March 3, 2000  
PCT No. : PCT/EP98/05793  
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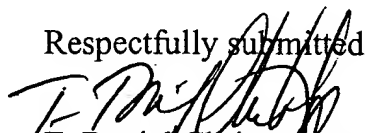
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Reg. No. 31,750

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U.S. APPLICATION NO.	FIRST NAMED APPLICANT	ATTY. DOCKET NO.
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36TH FLOOR  
PHILADELPHIA, PA 19103

INTERNATIONAL APPLICATION NO.	
PCT/EP98/05793	
LA. FILING DATE	PRIORITY DATE
11 SEP 98	15 SEP 97
DATE MAILED: 18 APR 2000	

**NOTIFICATION OF MISSING REQUIREMENTS UNDER 35 U.S.C. 371 IN THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)**

1. The following items have been submitted by the applicant or the IB to the United States Patent and Trademark Office as

- ☐ a Designated Office (37 CFR 1.494),  
☒ an Elected Office (37 CFR 1.495):

- ☒ U.S. Basic National Fee.  
☒ Copy of the international application in:  
☒ a non-English language.  
☐ English.

**RESPONSE DUE 5-18-00**

- ☒ Translation of the international application into English.  
☐ Oath or Declaration of inventors(s) for DO/EO/US.  
☐ Copy of Article 19 amendments.  
☐ Translation of Article 19 amendments into English.  
☒ The International Preliminary Examination Report in English and its Annexes, if any.  
☐ Translation of Annexes to the International Preliminary Examination Report into English.  
☒ Preliminary amendment(s) filed 03 MAR 2000 and \_\_\_\_\_  
☐ Information Disclosure Statement(s) filed \_\_\_\_\_ and \_\_\_\_\_  
☐ Assignment document.  
☐ Power of Attorney and/or Change of Address.  
☐ Substitute specification filed \_\_\_\_\_  
☐ Verified Statement Claiming Small Entity Status.  
☒ Priority Document.  
☒ Copy of the International Search Report ☒ and copies of the references cited therein.

- ☒ Other: Verified Statement Claiming Small Entity Status wasn't received at this office. The large fees were charged.  
2. The following items **MUST** be furnished within the period set forth below in order to complete the requirements for acceptance under 35 U.S.C. 371:

- ☐ a. Translation of the application into English. Note a processing fee will be required if submitted later than the appropriate 20 or 30 months from the priority date.  
☐ The current translation is defective for the reasons indicated on the attached Notice of Defective Translation.  
☐ b. Processing fee for providing the translation of the application and/or the Annexes later than the appropriate 20 or 30 months from the priority date (37 CFR 1.492(f)).  
☒ c. Oath or declaration of the inventors, in compliance with 37 CFR 1.497(a) and (b), identifying the application by the International application number and international filing date.  
☐ The current oath or declaration does not comply with 37 CFR 1.497(a) and (b) for the reasons indicated on the attached PCT/DO/EO/917.  
☒ d. Surcharge for providing the oath or declaration later than the appropriate 20 or 30 months from the priority date (37 CFR 1.492(e)).

3. Additional claim fees of \$ \_\_\_\_\_ as a ☐ large entity ☐ small entity, including any required multiple dependent claim fee, are required. Applicant must submit the additional claim fees or cancel the additional claims for which fees are due. See attached PTO-875.

**ALL OF THE ITEMS SET FORTH IN 2(a)-2(d) AND 3 ABOVE MUST BE SUBMITTED WITHIN ONE MONTH FROM THE DATE OF THIS NOTICE OR BY ☐ 21 OR ☒ 31 MONTHS FROM THE PRIORITY DATE FOR THE APPLICATION, WHICHEVER IS LATER. FAILURE TO PROPERLY RESPOND WILL RESULT IN ABANDONMENT.**

The time period set above may be extended by filing a petition and fee for extension of time under the provisions of 37 CFR 1.136(a).

4. Translation of the Annexes **MUST** be submitted no later than the time period set above or the annexes will be cancelled. Note processing fee will be required if submitted later than 30 months from the priority date.  
5. ☐ The Article 19 amendments are cancelled since a translation was not provided by the appropriate 20 (37 CFR 1.494(d)) or 30 (37 CFR 1.495(d)) months from the priority date.

Applicant is reminded that any communication to the United States Patent and Trademark Office must be mailed to the address given in the heading and include the U.S. application no. shown above. (37 CFR 1.5)

**A copy of this notice MUST be returned with this response.**

Enclosed:

- ☐ PCT/DO/EO/917  
☐ PTO-875  
☐ Notice of Defective Translation

FORM PCT/DO/EO/905 (December 1997)

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